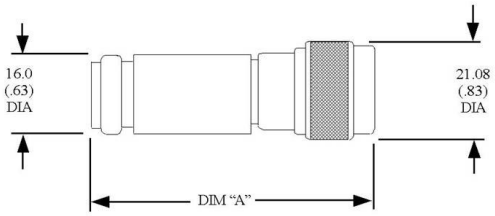
Fixed Coaxial Attenuator WA1 & WA2

WA1/6: DC – 6 GHz
WA1: DC – 12.4 GHz
WA2: DC – 18.0 GHz

5 WATTS



Features

Type N stainless steel M/F connectors per MIL-STD-348A, interface dimensions mate nondestructively with MIL-PRF-39012. Designed to meet MIL-DTL-3933 environmental specification.

Specifications

Nominal Impedance: 50 ohms.

Frequency Range: WA1/6: DC - 6 GHz.
WA1: DC - 12.4 GHz.
WA2: DC - 18.0 GHz.

Nominal dB Values: 1 - 60 dB

Power Coefficient: <0.005 dB/dB/W. Bidirectional in power.

Power Rating: **5 W** average. Maximum rated average power to 25°C ambient temperature, de-rated linearly to 0.5 W at 125°C. **1 kW** peak (5 µsec pulse width; 0.25% duty cycle).

Temperature Range: -55°C to +125°C.

Temperature Coefficient: < 0.0004 dB/dB/°C.

Construction: Passivated stainless steel body and connectors, gold plated beryllium copper contacts. RoHS Compliant.

Calibration: Insertion Loss and VSWR performed across frequency range. Calibration test data available at additional cost. *Model WA2 is also available in a calibrated attenuator set WAS-6 (3, 6, 10 and 20dB) with certificate of calibration.*

Standard Nominal Values and Deviations:

Attenuation (dB)	Accuracy ± dB		
	WA1(/6)	WA1	WA2
1 to 2	0.4	0.4	0.5
3 to 9	0.3	0.3	0.3
10 to 20	0.5	0.5	0.5
21 to 40	0.75	0.75	1.0
41 to 50	0.75	0.75	1.25
51 to 60	1.0	1.0	1.5

Maximum VSWR

Frequency (GHz)	VSWR		
	WA1(/6)	WA1	WA2
DC - 4.0	1.15	1.15	1.15
4.0 - 8.0	1.2	1.2	1.2
8.0 - 12.4	N/A	1.25	1.25
12.4 - 18.0	N/A	N/A	1.4

Weight (All Models):

01-30 dB	70 (2.6)
31-60 dB	100 (3.6)

Dimensions:

Attenuation (dB)	Dim "A"
1 – 30	57.2 (2.25)
31 – 60	67.4 (2.65)

Diameter: 16.0 (0.63).

Note: Dimensions are given in mm (in), or g (oz). Weight figure is nominal, with our standard connector configuration. Additional connector options may be available.

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Specification Subject to change without notice